

**AMENDMENTS TO THE CLAIMS:**

This listing of the claims will replace all prior listings and versions of claims in the application.

Claims 1-46 (canceled)

Claim 47 (currently amended)      ~~The kit of Claim 46, further~~ A kit comprising a recombinant enzyme comprising a 5' nuclease, wherein said recombinant enzyme comprises a polypeptide encoded by the nucleic acid shown in SEQ ID NO: 2856.

Claim 48 (previously presented)      The kit of Claim 47, wherein said polypeptide is shown in SEQ ID NO:2857.

Claims 49-57 (canceled)

58. (new)      The kit of Claim 47, further comprising a probe oligonucleotide.

59. (new)      The kit of Claim 48, further comprising an INVADER oligonucleotide.

60. (new)      The kit of Claim 47, further comprising a labeled oligonucleotide.